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PATENT ABSTRACTS OF JAPAN

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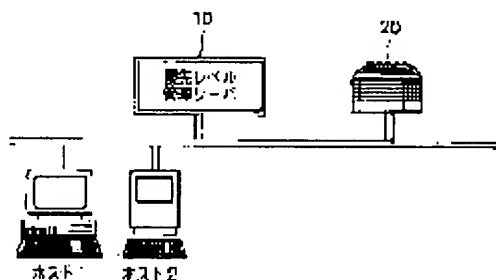
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(54) PRINTER MANAGING SYSTEM

(57)Abstract:

PROBLEM TO BE SOLVED: To provide a printer managing system with which high-efficiency work processing is enabled by smoothing an entire processing sequence.

SOLUTION: Two host computers 1 and 2 and a printer system 20 are connected by a communication line at least and the operating sequence for commonly utilizing the printer system 20 between the host computers is managed by a managing server 10 connected to the communication line. In such a system, priority levels for regulating the order to utilize the printer system 20 are previously determined for each job. The printer utilization priority comprising priority levels is allocated for each job and according to these priority levels, the managing server 10 discriminates the permission/non-permission of interruption of the job so that work can be smoothly executed without generating any batting on the communication line.



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DETAILED DESCRIPTION

[Detailed Description of the Invention]

[0001]

[The technical field to which invention belongs] this invention relates to the printer managerial system of the printer equipment by which common utilization was carried out.

[0002]

[Description of the Prior Art] Conventionally, a printer managerial system is built as a system by which an user generally shares one set of the printer connected on-line [two or more / host computer and on-line]. In such a system, a user overlaps by the height of the use frequency of a printer, and trouble often arises in work processing. That is, in under such a multiuser environment, the case which carries out batting often also has use of a printer. Furthermore, if one user occupies a printer continuously for a long time and it will become, other users cannot use and it is a serious problem in the case of about [become] and emergency etc. The working efficiency with such a situation overall as a result is reduced.

[0003] The technique indicated by JP,62-47761,A is in the conventional example which meant the resolution of this evil. By seeing priority and accepting interruption, when a demand is during the communication-wire connection with a printer from other terminal units, this conventional example is enabling processing of hurry, when there is only an exchange communication wire of only one circuit.

[0004]

[Problem(s) to be Solved by the Invention] However, in the above-mentioned conventional example, although it is, saying, "Interruption is permitted by priority", if the concrete content about priority is not indicated and this is not clarified as a solution when use of a communication wire carries out batting, it does not become a resolution of a problem.

[0005] this invention aims at offering the printer managerial system which makes the whole procedure smooth and enables efficient work processing.

[0006]

[Means for Solving the Problem] In order to attain such a purpose, the printer managerial system of this invention At least two sets of host computers and printer equipment are connected by the communication wire. It is the printer managerial system with which a host computer uses this printer equipment in cooperation. It connects with a communication wire, the management server which defines beforehand the priority level which specifies the precedence using printer equipment for every job, and manages it is constituted, and it is characterized by enabling preferentially use of printer equipment of the job to which higher priority level was assigned.

[0007] Moreover, it is good to equip the job transmitted by the user assigned to higher priority level with the function in which printer equipment can be used preferentially by assigning the above-mentioned priority level by the user using a host computer, and managing it. Furthermore, it is good to equip the job transmitted from the host computer assigned to higher level with the function in which printer equipment can be used preferentially by assigning priority level by the host computer and managing it.

[0008]

[Embodiments of the Invention] Next, with reference to an accompanying drawing, the gestalt of operation of the printer managerial system by this invention is explained in detail. Reference of drawing 1 shows the 1 operation gestalt of the printer managerial system of this invention.

[0009] The example of a configuration of the printer managerial system of this invention is shown in drawing 1, and a host 1, the host 2, and the printer equipment 20 (it is only also henceforth called a printer) are connected to the line managed by the priority level management server 10 of the 1 operation gestalt by the communication wire. The priority level management server 10 manages the job about assignment and these of priority level, an user, a host, etc. A printer 20 is a printer for obtaining the hard copy corresponding to this system. The host 1 and the host 2 are hosts used under a network environment, and are a personal computer (PC) which a general client uses. Of course, these hosts may be hanging down from the communication wire how many.

[0010] The example of operation in the printer managerial system of this operation gestalt constituted by the <operation gestalt of ** 1st> above is explained. Drawing 2 is a flow chart showing the example of operation, and shows the example of operation when the job 1 (JOB1) with the priority level management server 10 is transmitted to another job 2 (JOB2) during sending from a client to a printer 20.

[0011] In drawing 2, sending of JOB1 is started to a printer 20 at step S10. A reception of JOB2 is started from a client (S11), and a reception of JOB2 is ended from a client (S12). Furthermore, priority level is checked (S13), in JOB2>JOB1, sending of JOB1 is interrupted to (S13/YES) and the printer 20 (S14), and sending of JOB2 is started to a printer 20 (S15). Sending of JOB2 is ended to a printer 20 (S16), and sending of JOB1 is resumed to a printer 20 (S17).

[0012] Moreover, in the check of priority level (S13), in JOB2<JOB1, sending of JOB1 is continued to (S13/NO) and the printer 20 (S21), and sending of JOB1 is ended to a printer 20 (S22). And sending of JOB2 is ended to a printer 20 (S23).

[0013] Since the priority level management server 10 will wedge the job if "priority level" is a high job even if a printer 20 is using it according to the above-mentioned procedure, it becomes a very effective function in the case of emergency etc. Might is demonstrated under an environment which prints big data to luxuriant growth especially. That is, big data make priority level low, and by making priority level high, data with which a sex is demanded instancy prevent transient confusion, and become possible [using a printer 20 efficiently].

[0014] Another advantage is that a package is easy. This operation gestalt gets down from the function in which the priority level management server 10 manages a printer 20, uniquely with, and it means that a client side can use this function, without being conscious also by the existing thing if a manager assigns "priority level" and is [priority level] clear-headed and sets it at the time of a system construction. That is, if data are only transmitted as usual as a client, the above-mentioned effect can be acquired.

[0015] In order to use a <operation gestalt of ** 2nd> book printer system, "priority level" is beforehand assigned by the user to the priority level management server 10. For example, in the case of an user 1, the user 2, and three users 3, the user using this printer system needs to do beforehand assignment as shown in the following table 1.

[0016] Table 1; "priority level assignment by the user"

User-name: Priority level user 1: Quantity user 2: Inside user 3: Low [0017] By the above-mentioned assignment, it applies to the operation flow chart of drawing 2 . By the pattern 1, when JOB1 is transmitted from an user 1 and JOB2 is transmitted from an user 2, priority level serves as "the user 1 > user 2", and is printed in the order of JOB1 and JOB2. By the pattern 2, when JOB1 is transmitted from an user 3 and JOB2 is transmitted from an user 2, priority level serves as "the user 2 > user 3", JOB2 interrupts in the middle of JOB1, and after completing printing of JOB2, printing of JOB1 is resumed.

[0018] In this operation gestalt, although it has an effect equivalent to the 1st operation gestalt fundamentally, in order to assign "priority level" by the user unit in the case of this operation gestalt, it is effective under the environment which has a client for every user.

[0019] In order to use a <operation gestalt of ** 3rd> book printer system, "priority level" is beforehand assigned by the user to the priority level management server 10. For example, in the case of [two] a host 1 and the host 2, the user using this printer system needs to do beforehand assignment as shown in the following table 2.

[0020] Table 2; "priority level assignment by the host"

Host-name: Priority level host 1: Quantity host 2: Low [0021] By the above-mentioned assignment, it applies to the operation flow chart of drawing 2 . By the pattern 1, JOB1 is transmitted from a host 1 and JOB2 is transmitted from a host 2. The priority level in this case serves as "the host 1 > host 2", and is printed in the order of JOB1 and JOB2. By the pattern 2, JOB1 is transmitted from a host 2 and JOB2 is transmitted from a host 1. The priority level in this case serves as "the host 1 > host 2", JOB2 interrupts in the middle of JOB1, and after completing printing of JOB2, printing of JOB1 is resumed.

[0022] In this operation gestalt, it has an effect equivalent to the 1st operation gestalt fundamentally. In order to assign "priority level" per client in the case of this operation gestalt, printing of a client 1 and the application 2 of printing under [1] the environment with a function different for every client (i.e., application) is effective under the environment of use etc. for a client 2.

[0023] According to each above-mentioned operation gestalt, the printer use priority "priority level" Becoming is assigned for every job, and authorization/disapproval of interruption of a job are judged according to the priority level. Therefore, the batting on a communication wire does not arise.

[0024]

[Effect of the Invention] the above explanation -- expiring -- kana -- the printer managerial system of this invention defines and manages beforehand the priority level which specifies the precedence using printer equipment for every job like Therefore, the use of printer equipment of the job to which higher priority level was assigned is attained preferentially. priority level -- a printer use priority is assigned for every job, by judging authorization/disapproval of interruption of a job according to the priority level, the batting on a communication wire does not arise and execution of work is attained smoothly.

CLAIMS

[Claim(s)]

[Claim 1] In the printer managerial system with which at least two sets of host computers and printer equipment are connected by the communication wire, and the aforementioned host computer uses this printer equipment in cooperation Connect with the aforementioned communication wire and the management server which defines beforehand the priority level which specifies the precedence using the aforementioned printer equipment for every job, and manages it is constituted. The printer managerial system characterized by enabling preferentially use of the aforementioned printer equipment of the job to which the aforementioned higher priority level was assigned.

[Claim 2] The printer managerial system according to claim 1 characterized by equipping the job transmitted by the aforementioned user assigned to higher priority level by assigning the aforementioned priority level by the user using the aforementioned host computer, and managing it with the function in which the aforementioned printer equipment can be used preferentially.

[Claim 3] The printer managerial system according to claim 1 characterized by equipping the job transmitted from the host computer assigned to higher level by assigning the aforementioned priority level by the aforementioned host computer, and managing it with the function in which the aforementioned printer equipment can be used preferentially.